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Day-end(1) Exercise

## Exercise 1: UDP

Captured UDP packet and UDP message structure screenshot below:

The screenshot displays the Wireshark network protocol analyzer interface. The top pane shows a list of captured packets, with packet 31 selected. The middle pane shows the details of the selected packet, which is a UDP datagram. The bottom pane shows the raw packet data in hexadecimal and ASCII.

**Packets:**

No.	Time	Source	Destination	Protocol	Length	Info
31	4.741848	192.168.184.243	192.168.184.255	UDP	212	57048 → 6646 Len=170

**Details:**

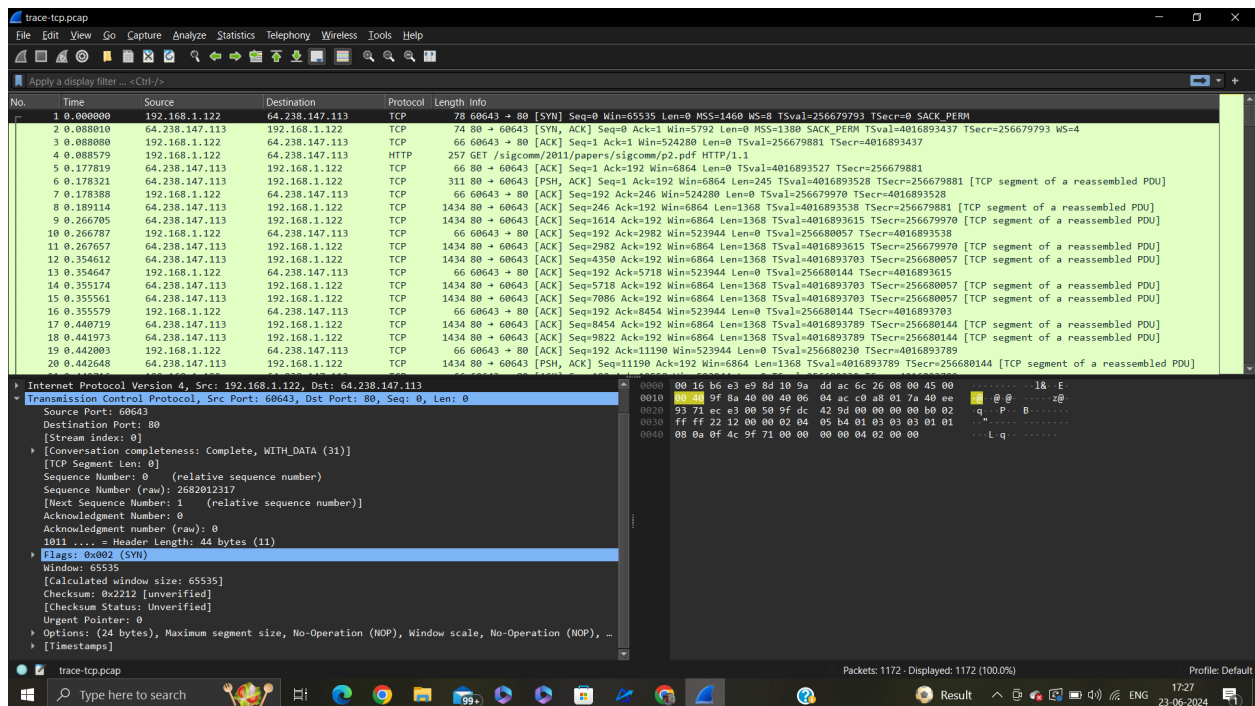
- Total Length: 198
- Identification: 0x112a (4394)
- 0000... = Flags: 0x0
- ...0 0000 0000 0000 = Fragment Offset: 0
- Time to Live: 128
- Protocol: UDP (17)
- Header Checksum: 0x35b9 [validation disabled]
- [Header checksum status: Unverified]
- Source Address: 192.168.184.243
- Destination Address: 192.168.184.255
- User Datagram Protocol, Src Port: 57048, Dst Port: 6646
  - Source Port: 57048
  - Destination Port: 6646
  - Length: 170
  - Checksum: 0x2aab [unverified]
  - [Checksum Status: Unverified]
  - [Stream index: 0]
  - [Timestamps]
  - UDP payload (170 bytes)
  - Data (170 bytes)

**Raw Data:**

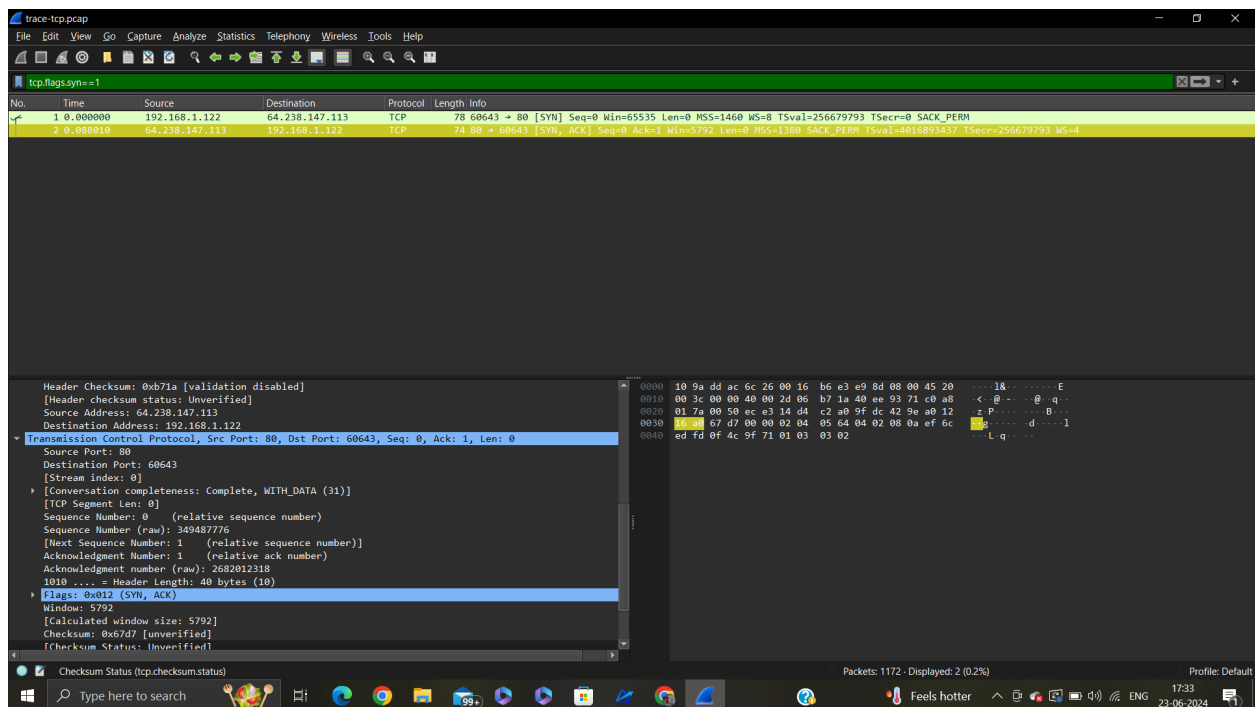
```
0000 ff ff ff ff ff ff a4 97 b1 e5 89 99 08 00 45 00 ...E
0010 00 c6 11 2a 00 00 00 11 35 b9 c0 a8 b8 f3 c0 a8 ...5
0020 b8 ff de d8 19 f6 00 b2 2a ab 00 00 00 a6 00 00 ...
0030 00 09 00 00 00 00 00 00 00 08 00 00 00 18 4d 00 ...M
0040 63 00 4e 00 41 00 55 00 6e 00 69 00 71 00 75 00 ...c N A U n i q u
0050 65 00 49 00 64 00 0b 00 00 24 00 00 00 31 37 00 ...e i d
0060 62 61 62 62 63 63 2d 64 39 61 34 2d 34 37 36 65 ...b a b b e c - d 9 a d - 4 7 6 e
0070 2d 62 64 63 36 2d 34 34 62 64 61 64 61 35 33 62 ...- b d c 6 - 4 4 b d a d a 5 3 b
0080 37 39 01 00 00 00 18 4d 00 63 00 4e 00 41 00 55 ...7 9
0090 00 6e 00 69 00 71 00 75 00 65 00 49 00 64 00 0b ...n i q u e i d
00a0 00 00 00 24 00 00 00 35 35 66 30 63 35 38 30 2d ...$ 5 5 f 0 c 5 8 0
00b0 34 64 35 63 2d 34 33 35 38 2d 38 31 39 63 2d 61 ...4 d 5 c - 4 3 5 8 - 8 1 9 c - a
00c0 36 33 37 61 33 66 34 31 65 37 32 01 7b de f7 bd ...6 3 7 a 3 f 4 1 e 7 2 {
00d0 00 00 00 00 ...
```

## Exercise 2: TCP

### 1. TCP trace screenshot below:



### 2. TCP segment with SYN flag on



### 3. IO graphs for tcp.srcport==80 & tcp.dstport==80

